

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

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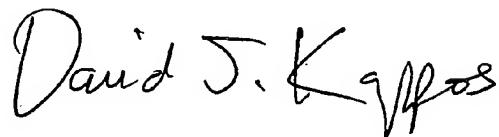
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The drawing sheets, consisting of fig. 6 should be deleted to be replaced with the drawing sheet consisting of fig. 6, as shown on the attached page.

Signed and Sealed this

Eighth Day of June, 2010



David J. Kappos
Director of the United States Patent and Trademark Office

Fig. 6 Comparison of the amino acid sequences of the α determinant (aa 100 to aa 180) of the novel variant HDDB 11 (lower row) and of the HBV ayw2 wild type (upper row)

| | | wild-type ayw2 aa sequence: | | | | | | | | | | Y | | | | | | | | | |
|-----|---|-----------------------------|----------|---|---|---|----------|----------|----------|---|---|----------|---|----------|----------|----------|----------|----------|----------|----------|-----|
| | | variant HDB 11 aa sequence: | | | | | | | | | | Y | | | | | | | | | |
| | | <u>A I N N R</u> | | | | | | | | | | <u>Q</u> | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 101 | Q | G | M | L | P | V | C | P | L | I | P | G | S | S | T | T | S | T | G | P | 100 |
| | Q | G | <u>I</u> | L | P | V | C | P | L | I | P | G | S | <u>A</u> | <u>I</u> | <u>N</u> | <u>N</u> | <u>R</u> | <u>G</u> | <u>Q</u> | 120 |
| 121 | C | R | T | C | T | T | P | A | Q | G | T | S | M | Y | P | S | C | C | C | T | 140 |
| | C | K(R) | T | C | T | T | <u>T</u> | <u>A</u> | <u>H</u> | G | T | S | M | Y | P | <u>Y</u> | C | C | C | T | 160 |
| 141 | K | P | S | D | G | N | C | T | C | I | P | I | P | S | S | W | A | F | G | K | 180 |
| | K | P | S | D | G | N | C | T | C | I | P | I | P | S | S | W | A | F | G | K | 161 |
| 161 | F | L | W | E | W | A | S | A | R | F | S | W | L | S | L | L | V | P | F | V | 180 |

The following aa are substituted (x) in the HDB 11 variant as compared with the HBV ayw2 wild

ivde.

V 96 (A) (not in the region of the a determinant),
M 103 (I), S 114 (A), T 115 (I), T 116 (N), S 117 (N)
and S 136 (Y) (all in region of the a determinant)